AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A method for forming a porous insulating layer, comprising:

a solution-applying step of applying a solution in which ana silicon nitride insulating material is dissolved onto a workpiece;

a solidified layer-forming step of forming a solidified layer by cooling the solution applied onto the workpiece to a temperature less than or equal to the melting point of a solvent contained in the solution;

a drying step of removing the solvent contained in the solidified layer to make the solidified layer porous; and

a firing step of hardening the porous layer obtained by the drying step.; and

an airtight treatment of instantaneously exposing the porous layer to a high

temperature with a flushing device to melt a surface of the porous layer to eliminate the

air permeability of the porous insulating layer.

2. (Previously Presented) The method for forming a porous insulating layer according to Claim 1, wherein, in the solution-applying step, the solution is applied to cover unevenness of the surface of the workpiece, and to flatten the surface of the applied layer.

3.	(Original) The method for forming a porous insulating layer according to
Claim 1, wherein the drying step is performed under a reduced pressure.	
4.	(Original) The method for forming a porous insulating layer according to
Claim 2, wherein the drying step is performed under a reduced pressure.	
5.	(Original) The method for forming a porous insulating layer according to
Claim 1, wherein the solidified layer-forming step is performed after part of the solvent is	
removed from the solution applied onto the workpiece.	
6.	(Cancelled)
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7.	(Cancelled)
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8.	(Currently Amended) The method for forming a porous insulating layer
according to Claim 1, wherein the application of the solution to the workpiece comprises	
silt-slit_coating.	
9.	(Cancelled)
10.	(Cancelled)

11.

(Cancelled)

12. (Cancelled)

13. (Currently Amended) A method for forming a porous insulating layer, comprising:

applying a solution containing <u>a silicon nitride</u>an insulating material onto a substrate;

cooling the solution to a temperature less than or equal to the melting point of a solvent contained in the solution to form a gel layer;

vaporizing the solvent contained in the gel layer to make a solidified layer, porous layer;

hardening the porous layer; and

melting a surface of the porous layer to eliminate the air permeability enclose pores of the surface of the porous layer by instantaneously exposing the porous layer to a high temperature with a flushing device.

- 14. (Previously Presented) The method of claim 13, wherein the step of vaporizing the solvent comprises sublimation of the solvent.
 - 15. (Cancelled)
 - 16. (Cancelled)

- 17. (Previously Presented) The method of claim 13, wherein the porous layer comprises a porosity of 90%.
 - 18. (Cancelled)